CONTENTS

Special issue: Waste Management Technology in Taiwan, 1997

Preface 1

A vector-based spatial model for landfill siting
H.-Y. Lin and J.-J. Kao (Hsinchu, Taiwan) 3
A client/server computer framework for solid waste management decision analysis in Taiwan
N.-B. Chang, Y.T. Lin and Y.H. Chang (Tainan, Taiwan) 15
Comparative evaluation of RDF and MSW incineration
Y.-H. Chang, W.C. Chen and N.-B. Chang (Tainan, Taiwan) 33
Feasibility study on prediction of properties of municipal solid waste with time series models
J.-g. Lin (Chong-li, Taiwan) 47
Influence of ligands on metals leachability from landfilling bottom ashes
S.-h. Gau and W.-c. Jeng (Taipei, Taiwan) 59
Extractabilities of heavy metals in chemically-fixed sewage sludges
P.-C. Hsiau and S.-L. Lo (Taipei, Taiwan) 73
A Taiwanese study of 2,3,7,8-substituted PCDD/DFs and coplanar PCBs in fly ashes from incinerators
Y.-C. Ling and P.C.C. Hou (Hsinchu, Taiwan) 83
A novel method to reuse paper sludge and co-generation ashes from paper mill
C.-T. Liaw, H.-L. Chang, W.-C. Hsu and C.-R. Huang (Hsinchu, Taiwan) 93
A study on heavy metal extractability and subsequent recovery by electrolysis for a municipal incinerator fly ash
G.C.C. Yang and C.-M. Tsai (Kaohsiung, Taiwan) 103
Feasibility of copper leaching from an industrial sludge using ammonia solutions
C.-J. Chang and J.C. Liu (Taipei, Taiwan) 121
Construction use of abandoned soils
H.-Y. Shan (Taiwan) and J.N. Meegoda (USA) 133
Synthesis of zeolite ZSM-48 from rice husk ash
H.P. Wang, K.S. Lin, Y.J. Huang, M.C. Li and L.K. Tsaur (Tainan, Taiwan) 147
Effects of chelant (EDTA) addition on properties of cement-solidified municipal incinerator fly ash
G.C.C. Yang, S.-W. Chou and T.-F. Hsu (Kaohsiung, Taiwan) 153
Incineration of styrene–butadiene rubber: the influence of heating rate and oxygen content on gas products formation
J.C. Lou, G.F. Lee and K.S. Chen (Kaohsiung, Taiwan) 165
Characterization of vitrified slag from mixed medical waste surrogates treated by a thermal plasma system
J.P. Chu, I.J. Hwang (Keelung, Taiwan), C.C. Tzeng, Y.Y. Kuo and Y.J. Yu (Lung-Tan, Taiwan) . 179
Effects of hydrogen chloride on the pyrolysis of polyethylene: pyrolysis kinetics
C.-H. Wu (Chang-Hwa, Taiwan), C.-Y. Chang (Taipei, Taiwan), J.-P. Lin (Yi-Lan, Taiwan) and Y. Liang (Taipei, Taiwan) 195
Treatment of radioactive wastes by plasma incineration and vitrification for final disposal
C.-C. Tzeng, Y.-Y. Kuo, T.-F. Huang, D.-L. Lin and Y.-J. Yu (Lung-Tan, Taiwan) 207
Pyrolysis of PU/CFCs wastes
H.P. Wang, S.H. Liao, K.S. Lin, Y.J. Huang (Tainan, Taiwan) and H.-C. Wang (Kaoshiung, Taiwan) 221
Pyrolysis kinetics of rubber mixtures
J.-P. Lin (Tou-Cheng, Taiwan), C.-Y. Chang (Taipei, Taiwan) and C.-H. Wu (Chang-Hwa, Taiwan) 227
The feasibility of mudstone material as a natural landfill liner
C. Sheu, T.-T. Lin (Kaohsiung, Taiwan), J.-E. Chang and C.-H. Cheng (Tainan, Taiwan) 237
Landfill leachate characteristics and modeling of municipal solid wastes combined with incinerated residuals
S.-H. Gau (Taipei, Taiwan) and J.-D. Chow (Taipei, Taoyuan, Taiwan) 249
Slaking mechanisms of mudstone liner immersed in water
T.-T. Lin, C. Sheu (Kaohsiung, Taiwan), J.-E. Chang and C.-H. Cheng (Tainan, Taiwan) 261

CONTENTS

Special issue: Waste Management Technology in Taiwan, 1997

Preface 1

A vector-based spatial model for landfill siting
H.-Y. Lin and J.-J. Kao (Hsinchu, Taiwan) 3
A client/server computer framework for solid waste management decision analysis in Taiwan
N.-B. Chang, Y.T. Lin and Y.H. Chang (Tainan, Taiwan) 15
Comparative evaluation of RDF and MSW incineration
Y.-H. Chang, W.C. Chen and N.-B. Chang (Tainan, Taiwan) 33
Feasibility study on prediction of properties of municipal solid waste with time series models
J.-g. Lin (Chong-li, Taiwan) 47
Influence of ligands on metals leachability from landfilling bottom ashes
S.-h. Gau and W.-c. Jeng (Taipei, Taiwan) 59
Extractabilities of heavy metals in chemically-fixed sewage sludges
P.-C. Hsiau and S.-L. Lo (Taipei, Taiwan) 73
A Taiwanese study of 2,3,7,8-substituted PCDD/DFs and coplanar PCBs in fly ashes from incinerators
Y.-C. Ling and P.C.C. Hou (Hsinchu, Taiwan) 83
A novel method to reuse paper sludge and co-generation ashes from paper mill
C.-T. Liaw, H.-L. Chang, W.-C. Hsu and C.-R. Huang (Hsinchu, Taiwan) 93
A study on heavy metal extractability and subsequent recovery by electrolysis for a municipal incinerator fly ash
G.C.C. Yang and C.-M. Tsai (Kaohsiung, Taiwan) 103
Feasibility of copper leaching from an industrial sludge using ammonia solutions
C.-J. Chang and J.C. Liu (Taipei, Taiwan) 121
Construction use of abandoned soils
H.-Y. Shan (Taiwan) and J.N. Meegoda (USA) 133
Synthesis of zeolite ZSM-48 from rice husk ash
H.P. Wang, K.S. Lin, Y.J. Huang, M.C. Li and L.K. Tsaur (Tainan, Taiwan) 147
Effects of chelant (EDTA) addition on properties of cement-solidified municipal incinerator fly ash
G.C.C. Yang, S.-W. Chou and T.-F. Hsu (Kaohsiung, Taiwan) 153
Incineration of styrene–butadiene rubber: the influence of heating rate and oxygen content on gas products formation
J.C. Lou, G.F. Lee and K.S. Chen (Kaohsiung, Taiwan) 165
Characterization of vitrified slag from mixed medical waste surrogates treated by a thermal plasma system
J.P. Chu, I.J. Hwang (Keelung, Taiwan), C.C. Tzeng, Y.Y. Kuo and Y.J. Yu (Lung-Tan, Taiwan) . 179
Effects of hydrogen chloride on the pyrolysis of polyethylene: pyrolysis kinetics
C.-H. Wu (Chang-Hwa, Taiwan), C.-Y. Chang (Taipei, Taiwan), J.-P. Lin (Yi-Lan, Taiwan) and Y. Liang (Taipei, Taiwan) 195
Treatment of radioactive wastes by plasma incineration and vitrification for final disposal
C.-C. Tzeng, Y.-Y. Kuo, T.-F. Huang, D.-L. Lin and Y.-J. Yu (Lung-Tan, Taiwan) 207
Pyrolysis of PU/CFCs wastes
H.P. Wang, S.H. Liao, K.S. Lin, Y.J. Huang (Tainan, Taiwan) and H.-C. Wang (Kaoshiung, Taiwan) 221
Pyrolysis kinetics of rubber mixtures
J.-P. Lin (Tou-Cheng, Taiwan), C.-Y. Chang (Taipei, Taiwan) and C.-H. Wu (Chang-Hwa, Taiwan) 227
The feasibility of mudstone material as a natural landfill liner
C. Sheu, T.-T. Lin (Kaohsiung, Taiwan), J.-E. Chang and C.-H. Cheng (Tainan, Taiwan) 237
Landfill leachate characteristics and modeling of municipal solid wastes combined with incinerated residuals
S.-H. Gau (Taipei, Taiwan) and J.-D. Chow (Taipei, Taoyuan, Taiwan) 249
Slaking mechanisms of mudstone liner immersed in water
T.-T. Lin, C. Sheu (Kaohsiung, Taiwan), J.-E. Chang and C.-H. Cheng (Tainan, Taiwan) 261

Adsorption of carbofuran on lateritic soils
T.-L. Hsieh and M.-M. Kao (Tainan, Taiwan) 275
Removal of lead from a silt loam soil by electrokinetic remediation
G.C.C. Yang and S.-L. Lin (Kaohsiung, Taiwan) 285
Study of the electrokinetic process on Cd and Pb spiked soils
J.G. Sah and J.Y. Chen (Pingtung, Taiwan) 301

Author Index Volume 58 317

Subject Index Volume 58 319